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(54) **POWER CONTROL FOR COMMUNICATIONS SYSTEMS UTILIZING HIGH SPEED SHARED CHANNELS**

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CPC ***H04W 52/54*** (2013.01); ***H04L 1/1607*** (2013.01); ***H04L 5/0055*** (2013.01);
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(58) **Field of Classification Search**
CPC ... H04W 52/54; H04W 52/221; H04W 52/22; H04W 72/0406; H04L 1/16; H04L 1/1607
See application file for complete search history.

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(57) **ABSTRACT**

A method and apparatus are described for controlling transmitter power in a wireless communication system in which both dedicated and shared channels are utilized. A wireless transmit/receive unit (WTRU) may receive a first channel (e.g., downlink shared channel), power commands for a second channel (e.g., dedicated channel) and power commands for a third channel (e.g., uplink shared channel). The WTRU may transmit in a transmission time interval at least one of the second channel and the third channel. Acknowledgments and negative acknowledgements to signals received over the first channel may be sent on the third channel. The WTRU may determine a transmission power level of the second channel in response to the second channel power commands and not the third channel power commands. The WTRU may determine a transmission power level of the third channel in response to the third channel power commands and not the second channel power commands.

24 Claims, 6 Drawing Sheets